

projecting [horizontal closed curves including a three-dimensional form model and vertical lines intersecting the closed curves to generate a group of curves] a plurality of lines along a surface of the three-dimensional form model; [and]

modifying the [group of curves by moving a curve or curves in the group along a surface of the three dimensional form model.] plurality of projected lines by adding at least one line to the projected lines; and

outputting a three-dimensional form data based on the modified lines for the three-dimensional form model, wherein

a second quantity of data of the outputted three-dimensional form data is smaller than the first quantity of data of the prepared three-dimensional form model.

D1
Sub 1/1

2. (Amended) The method according to claim 1, wherein said [curve group] plurality of projected lines comprises a parametric curve group.

D2

3. (Amended) The method according to claim 2, wherein in said modifying step, by moving control points of the parametric curve group, a part of the parametric curve group in correspondence to the movement of the control points is moved along the surface of the three-dimensional form model.

Sub 2/2

5. (Amended) The method according to claim 1, wherein said [curve group] plurality of projected lines comprises a spline curve group.

7. (Amended) A computer-implemented method of generating three-dimensional form data to be used in a computer apparatus, the method comprising the steps of:

preparing a three-dimensional form model defined by a [projecting horizontal closed curves including a] three-dimensional form [model and vertical lines intersecting the closed curves to generate a group of curves along a surface of the three-dimensional form model] data made of a first quantity of data;

projecting [horizontal closed curves including a three-dimensional form model and vertical lines intersecting the closed curves to generate a group of curves] a plurality of lines along a surface of the three-dimensional form model; [and]

D⁴
modifying [the group of curves by adding a curve or curves projected to the three-dimensional form model to the group of curves] the plurality of projected lines by moving at least one of the projected lines; and

outputting a three-dimensional form data based on the modified lines for the three-dimensional form model, wherein

a second quantity of data of the outputted three-dimensional form data is smaller than the first quantity of data of the prepared three-dimensional form model.

8. (Amended) A computer-implemented method of generating three-dimensional form data to be used in a computer apparatus, the method comprising the steps of:

preparing [a generating two dimensional horizontal closed curves and vertical lines intersecting the closed curves, the closed curves and the lines corresponding to] a

three-dimensional form model defined by a three-dimensional form data made of a first quantity of data;

projecting [horizontal closed curves including a three-dimensional form model and vertical lines intersecting the closed curves to generate a group of curves] a plurality of lines along a surface of the three-dimensional form model; [and]

modifying the [group of curves by deleting a curve or curves in the group of curves] plurality of projected lines by deleting at least one line to the projected lines; [.] and

outputting a three-dimensional form data based on the modified lines for the three-dimensional form model, wherein

a second quantity of data of the outputted three-dimensional form data is smaller than the first quantity of data of the prepared three-dimensional form model.

Please add new claims 29, 30, 31, 32 and 33 as follows:

D5
K2 5a 2 3
29. (New) A computer-implemented method of generating three-dimensional form data to be used in a computer apparatus, the method comprising the steps of:

preparing a three-dimensional form model defined by a three-dimensional form data made of a first quantity of data;

projecting a plurality of lines along a surface of the three-dimensional form model;

modifying the plurality of projected lines along the surface of the three-dimensional form model;

generating a three-dimensional form data based on the modified lines; and

outputting the three-dimensional form data based on the modified lines for the three-dimensional form model, wherein

a second quantity of data of the outputted three-dimensional form data is smaller than the first quantity of data of the prepared three-dimensional form model.

30. (New) The method according to claim 29, wherein said modifying step comprises the step of moving at least one of the projected lines.

31. (New) The method according to new claim 29, wherein said modifying step comprises the step of deleting at least one of the projected lines.

32. (New) A computer-implemented method of generating three-dimensional form data to be used in a computer apparatus, the method comprising the steps of:

obtaining a three-dimensional form model defined by three-dimensional form data from a three-dimensional data generator;

projecting a plurality of lines along a surface of the three-dimensional form model;

modifying the plurality of projected lines along the surface of the three-dimensional form model; and

outputting three-dimensional form data defined by the modified lines.